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**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**Applicants:** Hiroshi SAKAI, et al.      **Examiner:** Kevin L. McHenry  
**Serial No.:** 10/063,915      **Art Unit:** 1725  
**Filed:** May 23, 2002      **Docket:** 15574  
**For:** SOLDER PASTE PRINTING METHOD  
AND APPARATUS FOR PRINTING  
SOLDER PASTE ON A BOARD ON WHICH  
WIRING PATTERNS ARE FORMED      **Dated:** October 9, 2003

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

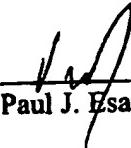
In accordance with 37 C.F.R §§1.97 and 1.98, it is requested that the following references, which are also listed on the attached Form PTO-1449, be made of record in the above-identified case.

1. Japanese Laid-Open Patent Application No. 5-96842, dated April 20, 1993;
2. Japanese Laid-Open Patent Application No. 11-1325, dated January 6, 1999;

**CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on October 9, 2003.

Dated: October 9, 2003

  
Paul J. Esatto, Jr.

Adjustment Date: 03/25/2004 SDIRETAL  
2/26/2003 JTUNSTAL 00000001 191013 10063915  
FC:i606 180.00 CR

400 Garden City Plaza  
Garden City, New York 11530  
(516) 742-4343 - Telephone  
(516) 742-4366 - Facsimile  
e-mail: [inirprop@ssmp.com](mailto:inirprop@ssmp.com)

**SCULLY, SCOTT, MURPHY  
& PRESSER**

**Fax**

|  |                        |  |
|--|------------------------|--|
| <b>To:</b> U.S. Patent and Trademark Office<br>Deposit Account Refunds   |                        | <b>From:</b> Anna Eberle for Paul J. Esatto, Jr. |
| <b>Fax:</b> 703-308-5077   | <b>Pages:</b>          |  |
| <b>Phone:</b>  | <b>Date:</b> 3/17/2004 |  |
| <b>Re:</b> Hiroshi Sakai, et al.<br>USSN: 10/083,915<br>Filed: May 23, 2002<br>Our Docket: 15574   | <b>CC:</b>             |  |
| <input type="checkbox"/> <b>Urgent</b> <input type="checkbox"/> <b>For Review</b> <input type="checkbox"/> <b>Please Comment</b> <input type="checkbox"/> <b>Please Reply</b> <input type="checkbox"/> <b>Please Recycle</b> |                        |  |
| <b>Comments:</b>   |                        |  |

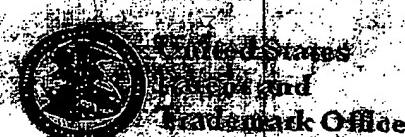
It is requested that the \$180.00 fee for the Information Disclosure Statement filed on October 14, 2003 be refunded. The Information Disclosure Statement was filed within three months of the foreign Office Action dated August 26, 2003 and a Statement was enclosed to that effect. The Office Action dated May 20, 2003 was non-final and therefore, the \$180.00 fee was not required. The Notice of Allowance was dated December 5, 2003, well after the filing date of the IDS. Please refund the \$180.00 fee, which was charged to deposit account 19-1013 on December 3, 2003. Copies of the deposit account statement, first two pages of Office Action, IDS AND Statement, Notice of Allowance and postcard are enclosed. Please credit the deposit account 19-1013 with the \$180.00 fee. Thank you.

**CONFIDENTIALITY:** The documents accompanying this facsimile transmission may contain information which is either confidential or legally privileged and is intended only for the authorized use of the individual or entity named above without right or publication or republication. This transmission is not to be disclosed except as expressly set forth or established by course of dealing. All rights are reserved. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution or use of the contents of this facsimile is prohibited. If you received this transmission in error, please notify us immediately by telephone to arrange for return of the documents.

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## Deposit Account Statement

<https://ramps.uspto.gov/eram/Controller;jsessionid=ram...>

Deposit Account Statement

Requested Statement Month:

December 2003

Deposit Account Number:

194013

Name:

SCULLY, SCOTT, MURPHY &amp; PRESSER

Attention:

DEBORAH SHEEHAN

Address:

A PROFESSIONAL CORPORATION

City:

GARDEN CITY

State:

NY

Zip:

11530-0299

| DATE  | SEQ  | POSTING<br>REF# | ATTORNEY<br>DOCKET<br>NBR | TEE<br>CODE | AMT       | BAL         |
|-------|------|-----------------|---------------------------|-------------|-----------|-------------|
| 12/01 | 411  | 78293991        | 127/1000                  | 8521        | \$40.00   | \$27,680.88 |
| 12/01 | 412  | 78293993        | 127/1000                  | 8522        | \$25.00   | \$27,655.88 |
| 12/01 | 413  | 1840686         | 127/1000                  | 8522        | \$25.00   | \$27,630.88 |
| 12/01 | 414  | 2176620         | 127/1000                  | 8522        | \$25.00   | \$27,605.88 |
| 12/01 | 415  | 2176618         | 127/1000                  | 8522        | \$25.00   | \$27,580.88 |
| 12/03 | 1    | 09966684        | A0000336-01-              | 2252        | \$410.00  | \$27,170.88 |
| 12/03 | 99   | 10055138        | Y0R920010499              | 2251        | \$110.00  | \$27,060.88 |
| 12/03 | 177  | 78335499        | 1726/1007                 | 2001        | \$335.00  | \$26,725.88 |
| 12/03 | 199  | 78335497        | 1726/1006                 | 2001        | \$335.00  | \$26,390.88 |
| 12/04 | 37   | 09767638        | PC10721ATMC               | 2201        | \$86.00   | \$26,304.88 |
| 12/04 | 38   | 09767633        | PC10721ATMC               | 2252        | \$420.00  | \$25,884.88 |
| 12/04 | 55   | 10724979        | 17127                     | 2001        | \$770.00  | \$25,114.88 |
| 12/04 | 56   | 10724939        | 17290                     | 2001        | \$385.00  | \$24,729.88 |
| 12/04 | 57   | 10724930        | 17290                     | 2203        | \$145.00  | \$24,584.88 |
| 12/04 | 58   | 10724931        | 17289                     | 2001        | \$385.00  | \$24,199.88 |
| 12/04 | 59   | 10724931        | 17289                     | 2203        | \$145.00  | \$24,054.88 |
| 12/05 | 3    | 09300466        | 12644                     | 2251        | -\$110.00 | \$24,164.88 |
| 12/05 | 20   | 1616267         | 658/1003                  | 7205        | \$100.00  | \$24,064.88 |
| 12/05 | 21   | 1616267         | 658/1003                  | 7201        | \$400.00  | \$23,664.88 |
| 12/05 | 22   | 76448280        | 1240/1005                 | 8521        | \$40.00   | \$23,624.88 |
| 12/05 | 31   | 76448280        | 1240/1005                 | 8521        | \$40.00   | \$23,584.88 |
| 12/05 | 591  | 106741991       | 02007(16792)              | 2021        | \$40.00   | \$23,544.88 |
| 12/08 | 1    | 10662415        | 16574                     | 2206        | \$180.00  | \$23,364.88 |
| 12/09 | 9    | 10724979        | 17127                     | 8021        | \$40.00   | \$23,324.88 |
| 12/09 | 10   | 10724930        | 17290                     | 8021        | \$40.00   | \$23,284.88 |
| 12/09 | 11   | 10724981        | 17289                     | 8021        | \$40.00   | \$23,244.88 |
| 12/09 | 1234 | 10674191        | 1102/1005                 | 7205        | \$100.00  | \$23,144.88 |
| 12/09 | 1232 | 10674191        | 1102/1005                 | 7201        | \$400.00  | \$22,744.88 |
| 12/10 | 1    | 09767677        | 14328                     | 2252        | \$420.00  | \$22,324.88 |
| 12/10 | 2    | 09767677        | 14328                     | 1202        | \$36.00   | \$22,288.88 |

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT**  
 (37 CFR 1.97(b) or 1.97(c))

Docket No.  
15574

In Re Application Of: **Hirsch, et al.**

Serial No.  
**10/063,915**

Filing Date  
**May 23, 2002**

Examiner  
**Kevin L. McHenry**

Group Art Unit  
**1725**

Title: **SOLDER PASTE PRINTING METHOD AND APPARATUS FOR PRINTING  
SOLDER PASTE ON A BOARD ON WHICH WIRING PATTERNS ARE FORMED**

Address to:  
**Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450**

**37 CFR 1.97(b)**

1.  The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

**37 CFR 1.97(c)**

2.  The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:

the statement specified in 37 CFR 1.97(e);

**OR**

the fee set forth in 37 CFR 1.17(p).

## TRANSMISSION OF INFORMATION ON DISCLOSURE STATEMENT

(OFTEN USE 37 CFR 1.97(b) OR 1.97(c))

Docket No.  
15574In File Application: **Hiroshi SAKAI, et al.**

Serial No.

10/063,915

Filing Date

May 28, 2002

Examiner

Kevin L. McHenry

Group Art Unit

1725

**SOLDER PASTE PRINTING METHOD AND APPARATUS FOR PRINTING  
SOLDER PASTE ON A BOARD ON WHICH WIRING PATTERNS ARE FORMED**

## Payment of Fee

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- A check in the amount of \_\_\_\_\_ is attached.
- The Director is hereby authorized to charge and credit Deposit Account No. **19-1013/SSMP** as described below.
- Charge the amount of \_\_\_\_\_
  - Credit any overpayment.
  - Charge any additional fees required.

## Certificate of Transmission by Facsimile\*

I certify that this document and authorization to charge deposit account is being facsimile transmitted to the United States Patent and Trademark Office (P.T.O.)

(Date)

Signature

Typed or Printed Name of Person Signing Certificate

\*This certificate may only be used if paying by deposit account.

Signature

**Paul J. Esatto, Jr.**

Registration No. 30,749

**SCULLY, SCOTT, MURPHY & PRESSER**

400 Garden City Plaza

Garden City, NY 11530

(516) 742-4343

PJE:AVS:jap

CC:

## Certificate of Mailing by First Class Mail

I certify that this document and fee is being deposited on October 9, 2003 with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Signature

Paul J. Esatto, Jr.

Typed or Printed Name

Dated: **October 9, 2003**

**PATENT****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**Applicants: **HIDEO SAKAI, et al.**Examiner: **Kevin L. McHenry**Serial No.: **10/063,915**Art Unit: **1725**Filed: **May 23, 2002**Docket: **15574**For: **SOEDER PASTE PRINTING METHOD  
AND APPARATUS FOR PRINTING  
SOLDER PASTE ON A BOARD ON WHICH  
WIRING PATTERNS ARE FORMED**Dated: **October 9, 2003**Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450**INFORMATION DISCLOSURE STATEMENT**

Sir:

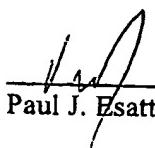
In accordance with 37 C.F.R. §§ 1.97 and 1.98, it is requested that the following references, which are also listed on the attached Form PTO-1449, be made of record in the above-identified case.

1. Japanese Laid-Open Patent Application No. 5-96842, dated April 20, 1993;
2. Japanese Laid-Open Patent Application No. 11-1325, dated January 6, 1999;

**CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on October 9, 2003.

Dated: October 9, 2003

  
**Paul J. Esatto, Jr.**

3. Japanese Laid-Open Patent Application No. 9-62146, dated March 7, 1997;
4. Japanese Laid-Open Patent Application No. 11-347789, dated December 21, 1999; and
5. Japanese Laid-Open Patent Application No. 11-300492, dated November 2, 1999.

The references listed above were cited in an Official Action dated August 26, 2003 received from the Japanese Patent Office. Applicants are submitting copies of the above references, together with an English translation of the Examiner's comments regarding the references from the Official Action. Please note that the other references cited in the Official Action, namely, Japanese Laid-Open Patent Application No. H10-217425, dated August 18, 1998 and Japanese Laid-Open Patent Application No. 2001-47601, dated February 20, 2001, were previously submitted in applicants' Information Disclosure Statement dated August 7, 2003. The relevance of the references is described in the Official Action.

In compliance with the requirements of 37 C.F.R. §1.98(a)(3), as a concise statement of relevance, as it is presently understood by the individual designated in 37 C.F.R. §1.56(c) most knowledgeable about the content of the information, the undersigned attorney of record submits a translation of portions of an official action by a foreign examiner in which the references were cited. The relevance to the pending U.S. patent application is that the references were cited in a foreign patent application on the same subject matter. However, no independent analysis of the references, the accuracy of the statement of the foreign examiner or the claims of the foreign application under the laws of that country or the United States relative to the subject matter claimed in the present application has been made; the present understanding of the

contents thereof by the undersigned being based on the translation of the foreign examiner's comments submitted herewith.

Inasmuch as this Information Disclosure Statement is being submitted in accordance with the schedule set out in 37 C.F.R. §1.97(c), the statement is enclosed.

Respectfully submitted,

*FW*  
Paul J. Esatto, Jr.  
Registration No. 30,749

Scully, Scott, Murphy & Presser  
400 Garden City Plaza  
Garden City, New York 11530  
(516) 742-4343

PJE:AVS:jap

**PATENT****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE****Applicants:** Hiroshi SAKAI, et al.**Examiner:** Kevin L. McHenry**Serial No.:** 10/063,915**Group:** 1725**Filed:** May 23, 2002**Docket:** 15574**For:** SOLDER PASTE PRINTING METHOD  
AND APPARATUS FOR PRINTING  
SOLDER PASTE ON A BOARD ON  
WHICH WIRING PATTERNS ARE FORMED**Dated:** October 9, 2003

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

**STATEMENT PURSUANT**  
**TO 37 C.F.R. § 1.97(c)(1) and (e)(1)**

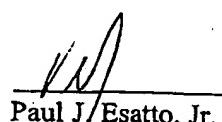
Sir:

I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.

**CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on October 9, 2003.

Dated: October 9, 2003

  
Paul J. Esatto, Jr.

Accordingly, it is respectfully requested that the accompanying Information Disclosure Statement be considered with respect to the above-identified application.

Respectfully submitted,

  
Paul J. Esatto, Jr.  
Registration No. 30,749

Scully, Scott, Murphy & Presser  
400 Garden City Plaza  
Garden City, New York 11530  
(516) 742-4343

PJE:AVS:jap

PATENT OFFICE DATE STAMP WILL ACKNOWLEDGE RECEIPT OF:

1. Transmittal of Information Disclosure Statement (in duplicate)
2. Information Disclosure Statement
3. PTO-1449
4. Five (5) references
5. Copy of Japanese Official Action
6. Verified English Translation of Examiner's comments
7. Statement Pursuant to 37 C.F.R. §1.97(c)(1) and (e)(1)
8. Certificate of Mailing dated October 9, 2003

Applicant: Hiroshi SAKAI, et al.

Serial No. 10/063,915

Filed: May 23, 2002

For: SOLDER PASTE PRINTING...

Docket: 15574

Dated: October 9, 2003

PJE:AVS:jap

PATENT OFFICE DATE STAMP WILL ACKNOWLEDGE RECEIPT OF:

1. Transmittal of Information Disclosure Statement (in duplicate)
2. Information Disclosure Statement
3. PTO-1449
4. Five (5) references
5. Copy of Japanese Official Action
6. Verified English Translation of Examiner's comments
7. Statement Pursuant to 37 C.F.R. §1.97(c)(1) and (e)(1)
8. Certificate of Mailing dated October 9, 2003

Applicant: Hiroshi SAKAI, et al.

Serial No. 10/063,915

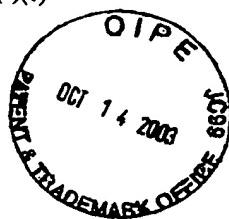
Filed: May 23, 2002

For: SOLDER PASTE PRINTING...

Docket: 15574

Dated: October 9, 2003

PJE:AVS:jap





## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER OF PATENTS AND TRADEMARKS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/063,915      | 05/23/2002  | Hiroshi Sakai        | 15574               | 4405             |

23389 7590 05/20/2003

SCULLY SCOTT MURPHY & PRESSER, PC  
 400 GARDEN CITY PLAZA  
 GARDEN CITY, NY 11530

EXAMINER

MCHENRY, KEVIN L

| ART UNIT | PAPER NUMBER |
|----------|--------------|
| 1725     | 4            |

DATE MAILED: 05/20/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

|                              |                        |                     |
|------------------------------|------------------------|---------------------|
| <b>Office Action Summary</b> | <b>Application No.</b> | <b>Applicant(s)</b> |
|                              | 10/063,915             | SAKAI ET AL.        |
|                              | <b>Examiner</b>        | <b>Art Unit</b>     |
|                              | Kevin L McHenry        | 1725                |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on \_\_\_\_\_.
- 2a) This action is FINAL.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-6 is/are rejected.
- 7) Claim(s) 1,5 and 6 is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on \_\_\_\_\_ is: a) approved b) disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

#### Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) All b) Some \* c) None of:
  1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).\* See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  
a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_.
- 4) Interview Summary (PTO-413) Paper No(s) \_\_\_\_\_.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: \_\_\_\_\_



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

## NOTICE OF ALLOWANCE AND FEE(S) DUE

23389 7590 12/05/2003  
**SCULLY SCOTT MURPHY & PRESSER, PC**  
 400 GARDEN CITY PLAZA  
 GARDEN CITY, NY 11530

|                  |              |
|------------------|--------------|
| EXAMINER         |              |
| MCHENRY, KEVIN L |              |
| ART UNIT         | PAPER NUMBER |
| 1725             |              |

DATE MAILED: 12/05/2003

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/063,915      | 05/23/2002  | Hiroshi Sakai        | 15574               | 4405             |

TITLE OF INVENTION: SOLDER PASTE PRINTING METHOD AND APPARATUS FOR PRINTING SOLDER PASTE ON A BOARD ON WHICH WIRING PATTERNS ARE FORMED

| APPLN. TYPE    | SMALL ENTITY | ISSUE FEE | PUBLICATION FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|--------------|-----------|-----------------|------------------|------------|
| nonprovisional | NO           | \$1330    | \$300           | \$1630           | 03/05/2004 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

## HOW TO REPLY TO THIS NOTICE:

## I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

Applicant claims SMALL ENTITY status.  
See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER:** Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.